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FIG. 1

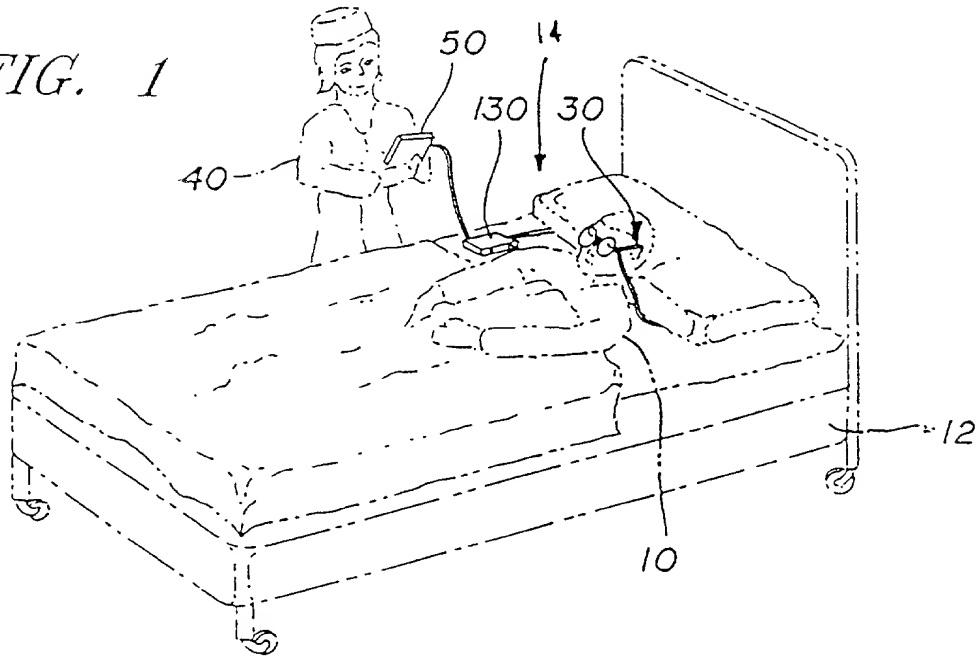
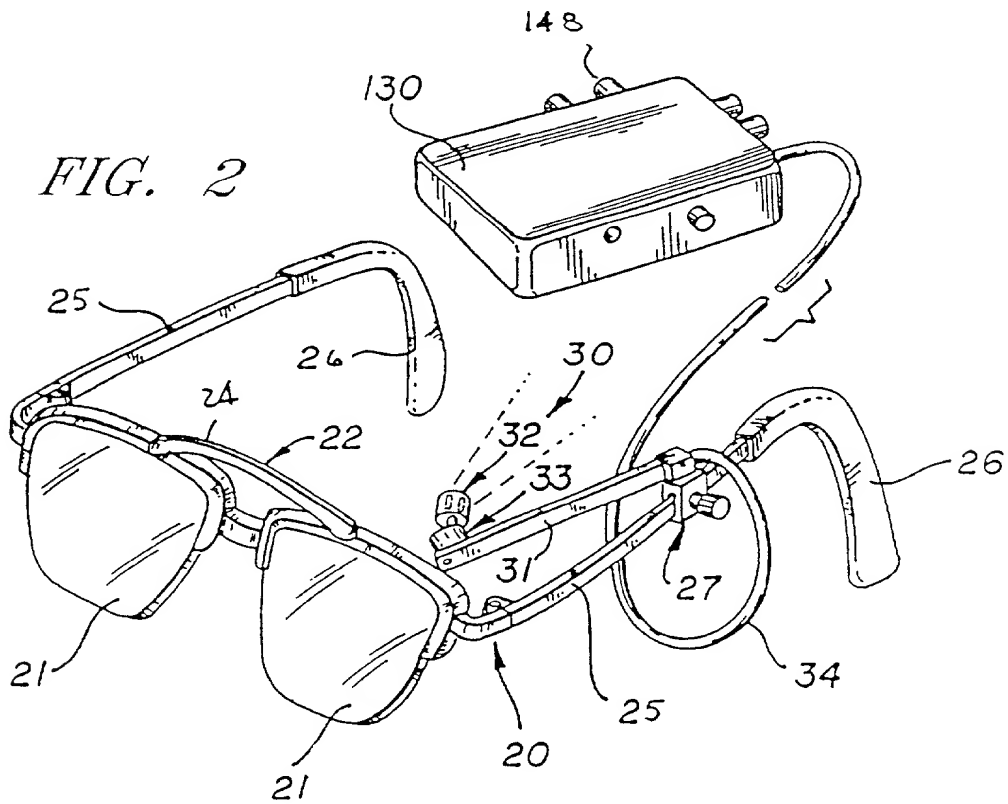


FIG. 2



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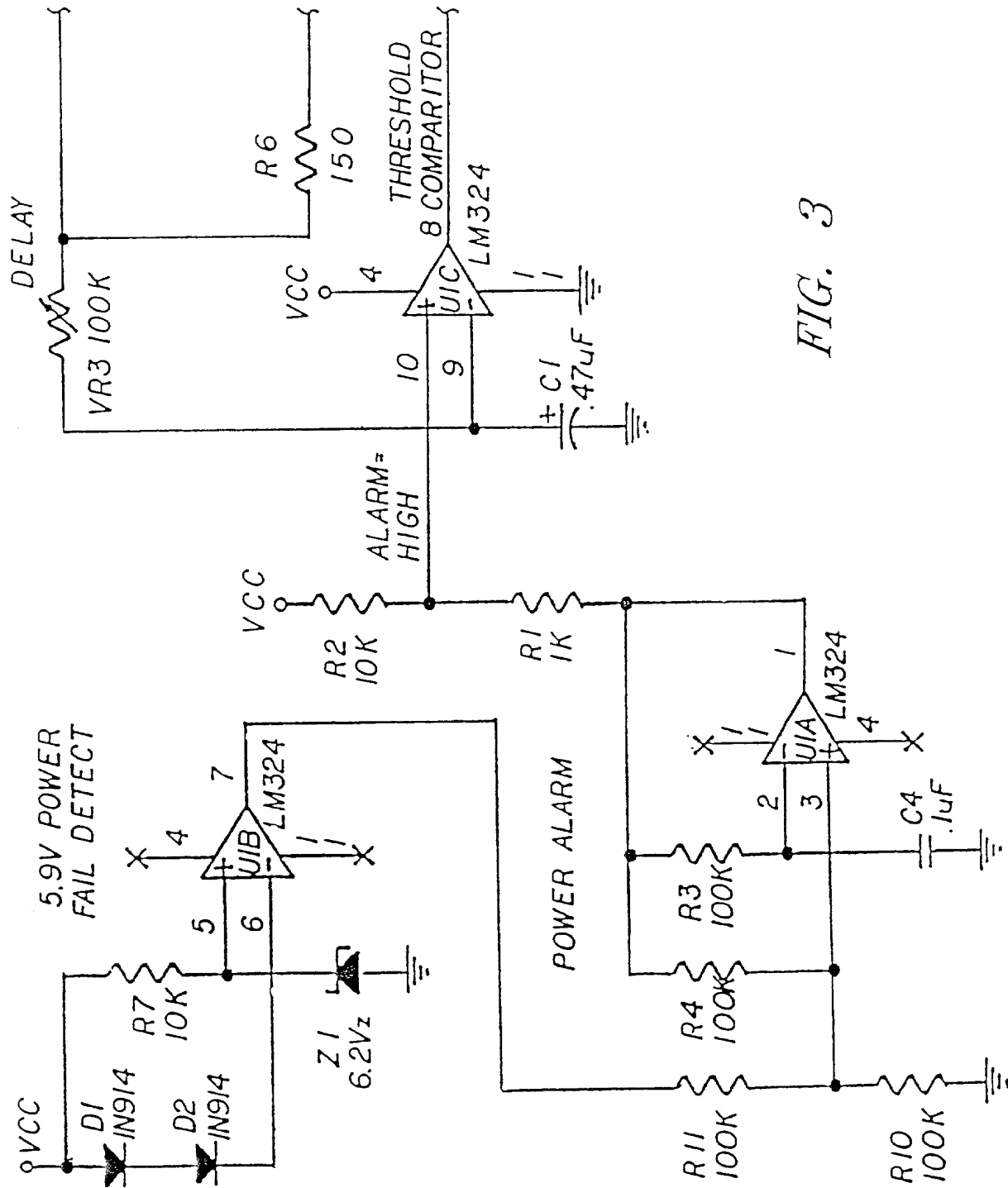


FIG. 3

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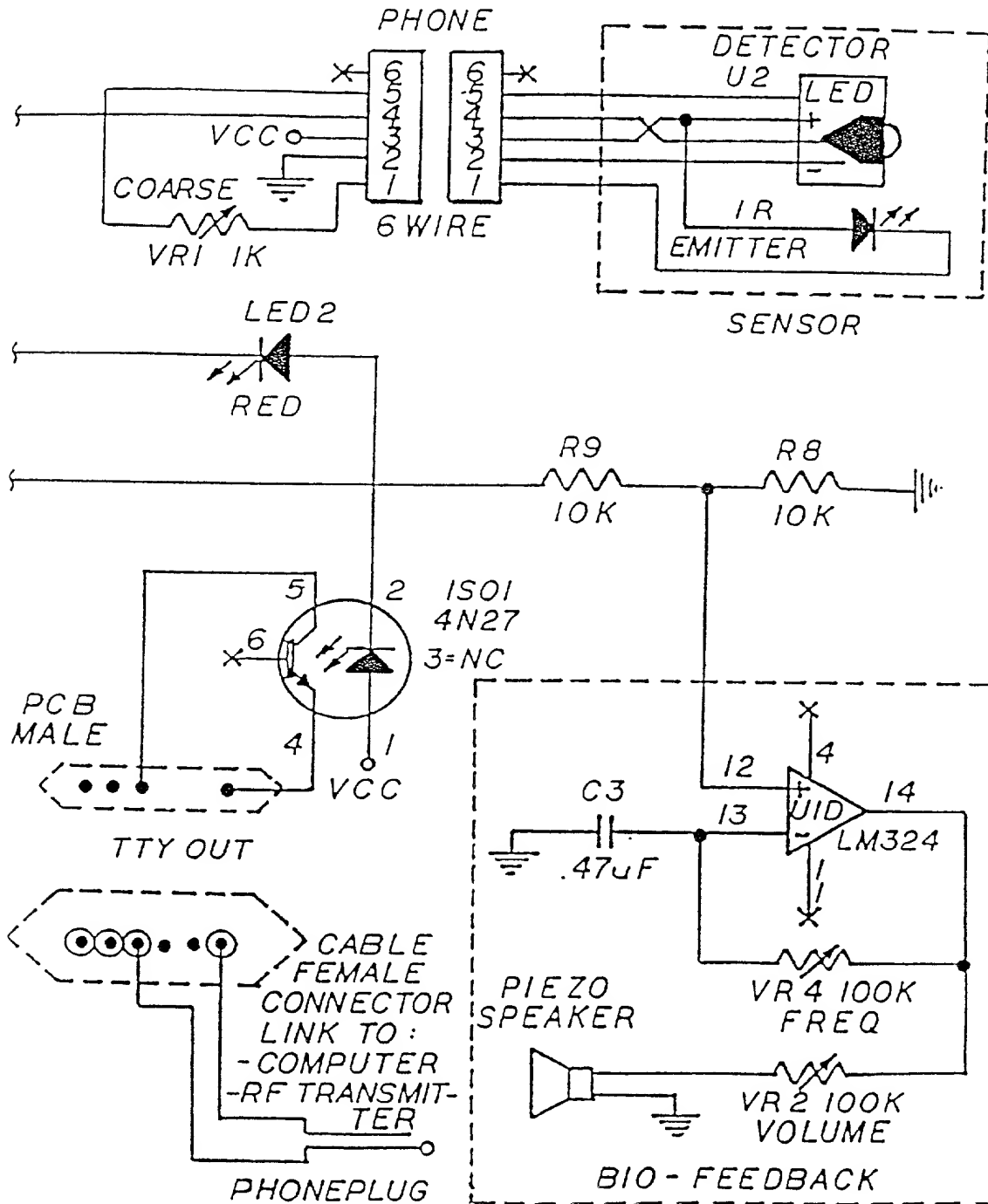


FIG. 3 CONT'D

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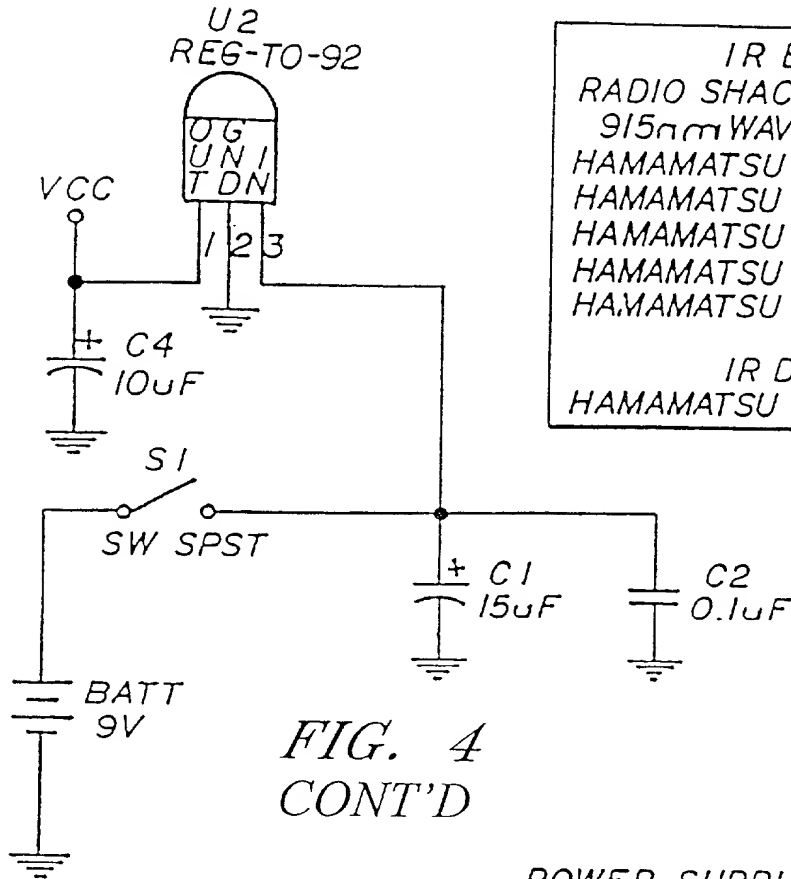


FIG. 4
CONT'D

IR EMITTERS	
RADIO SHACK	# 276-142
915nm WAVE LENGTH	
HAMAMATSU	# L1909
HAMAMATSU	# L1915-01
HAMAMATSU	# L2791-02
HAMAMATSU	# L2792-02
HAMAMATSU	# L2959
IR DETECTOR	
HAMAMATSU	# 54282-11

FIG. 3
CONT'D

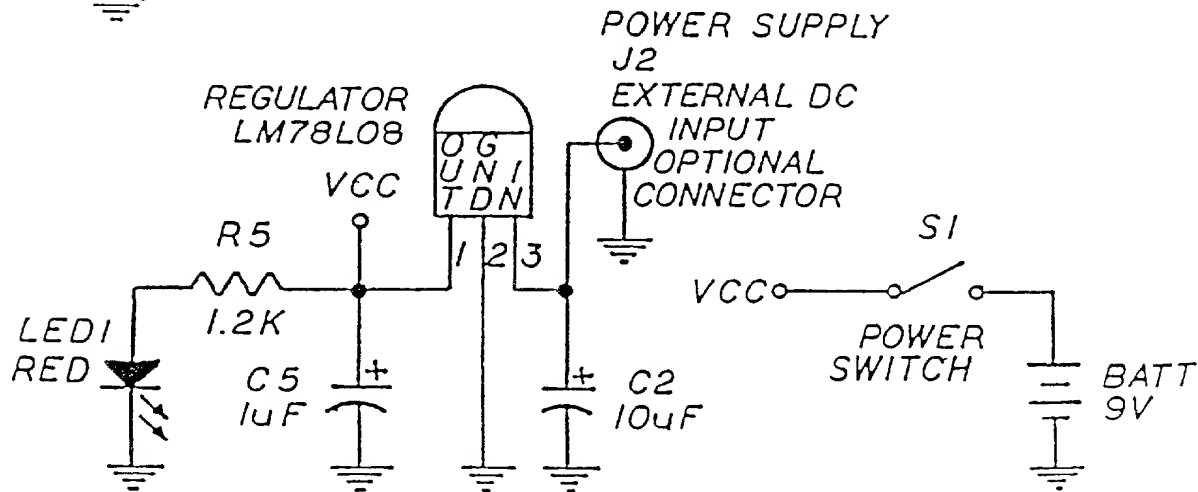


FIG. 3
CONT'D

FIG. 3 CONT'D

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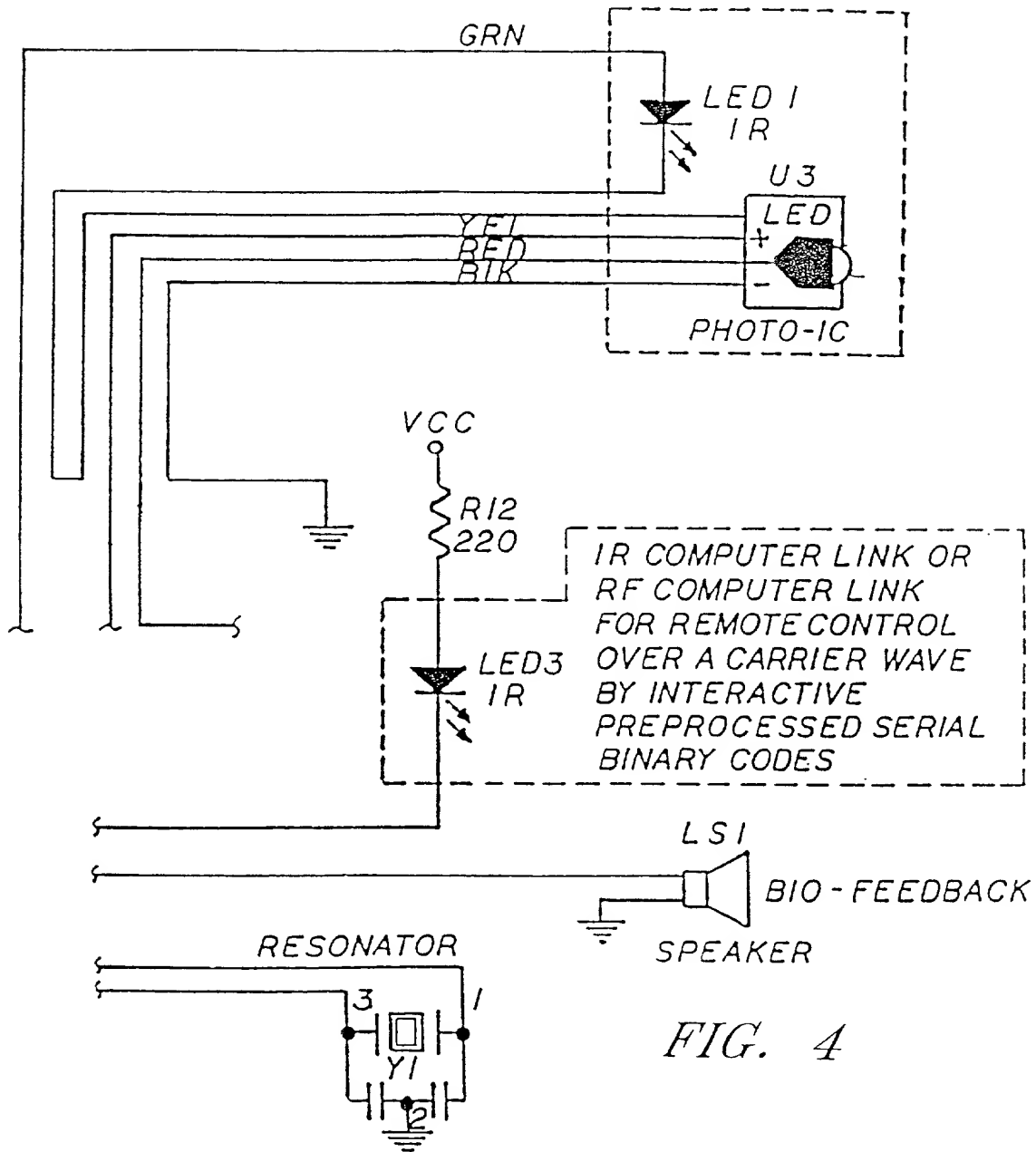
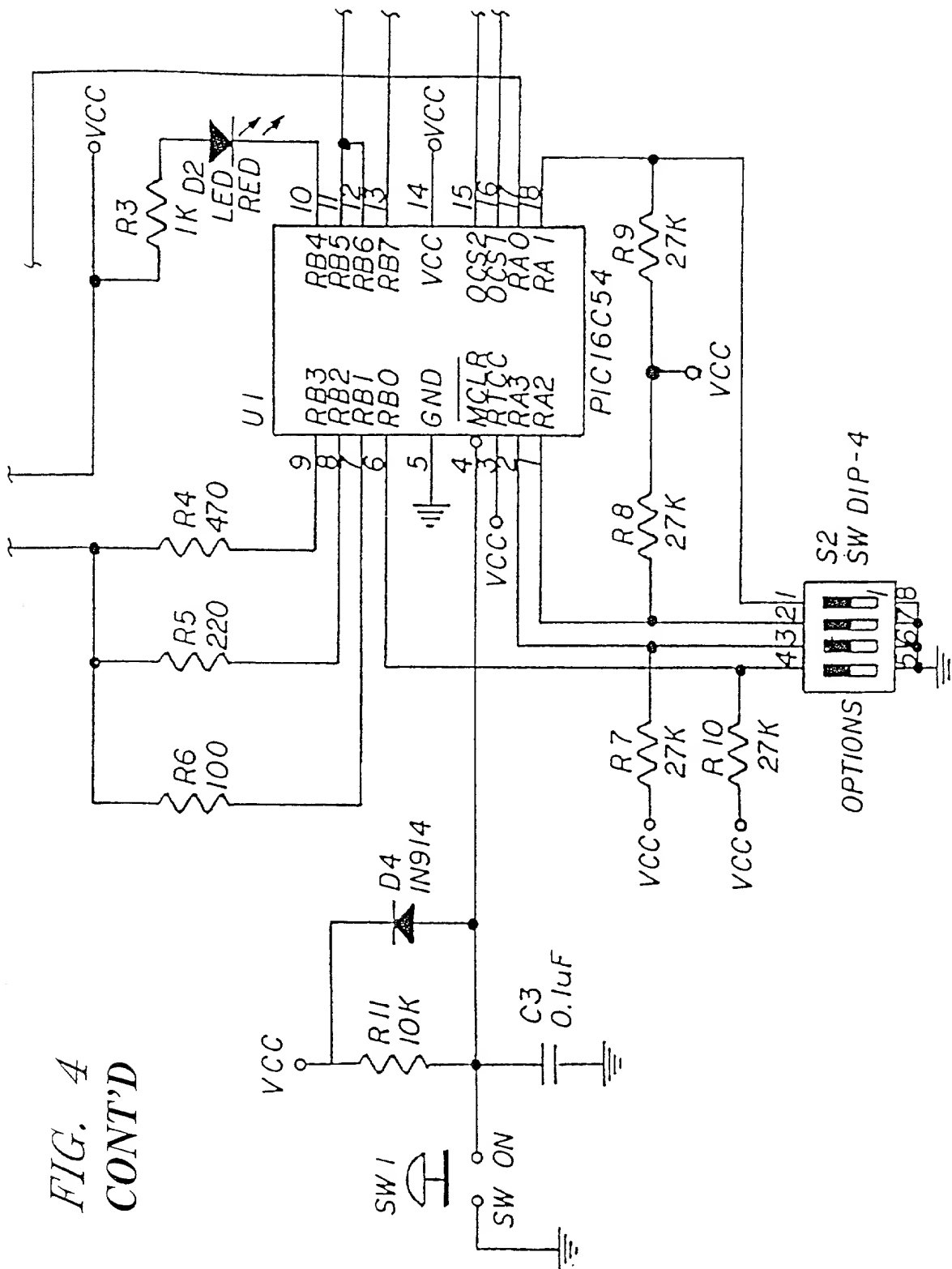


FIG. 4

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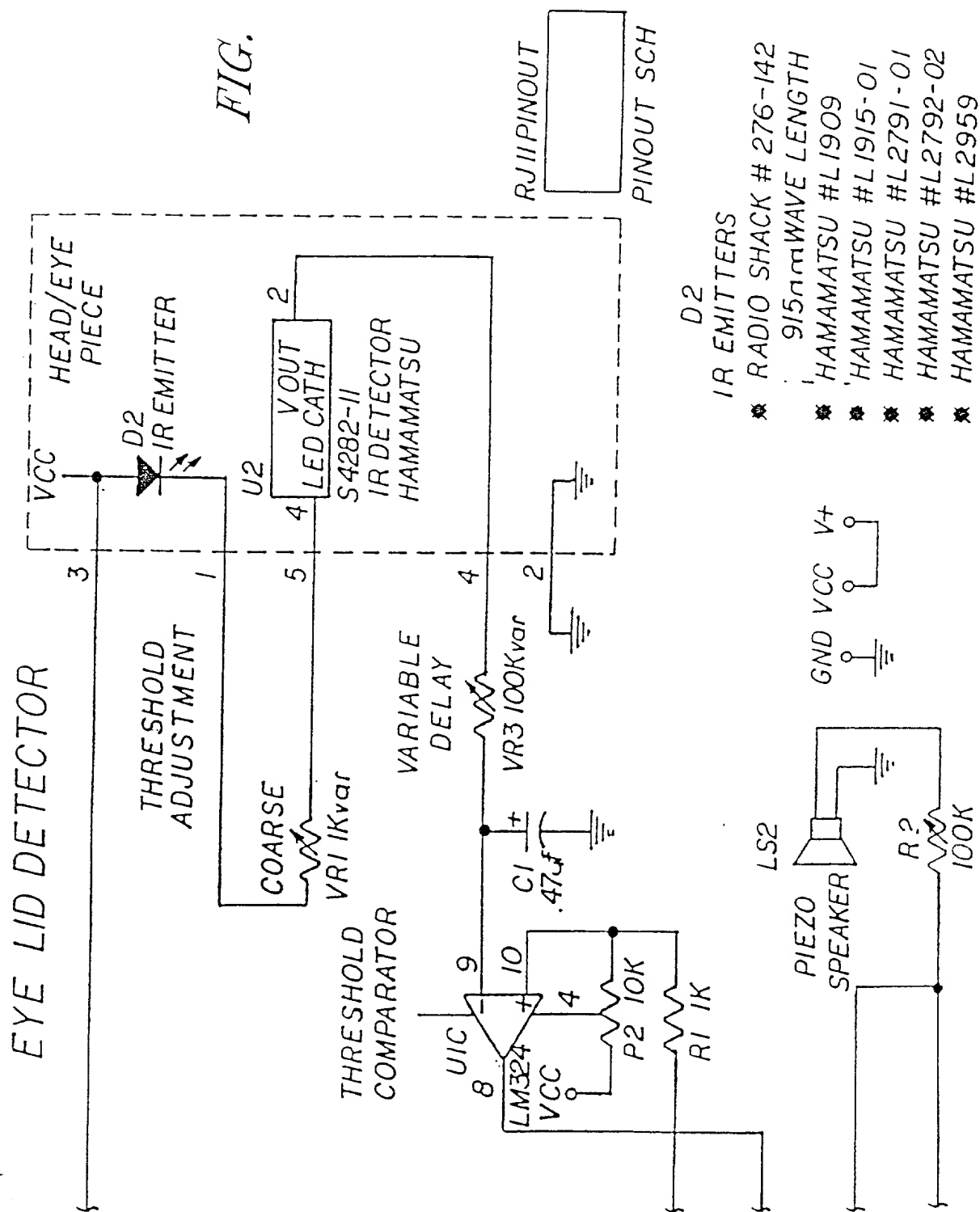
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FIG. 4
 CONT'D



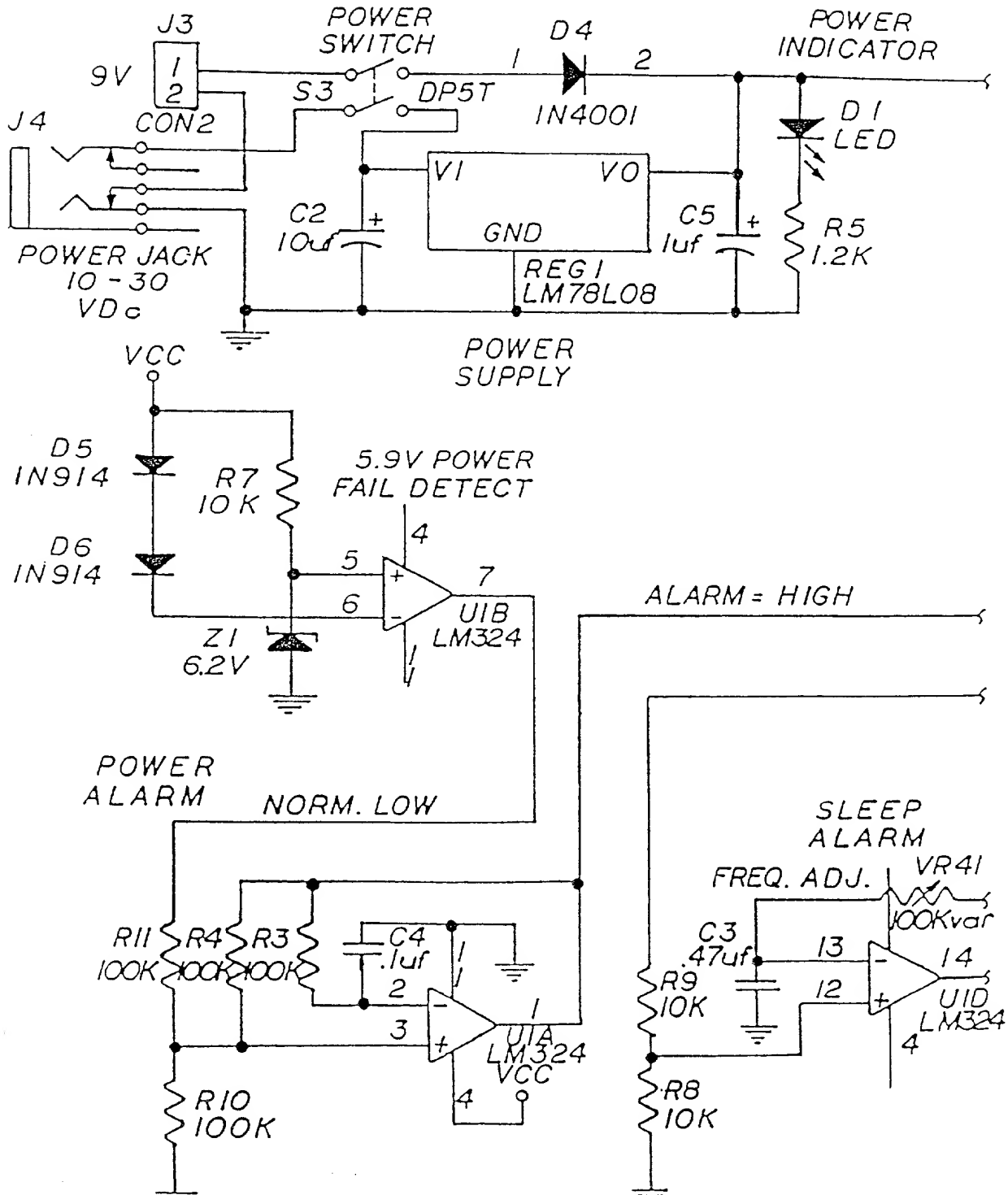
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FIG. 5



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FIG. 5
CONT'D



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FIG. 8

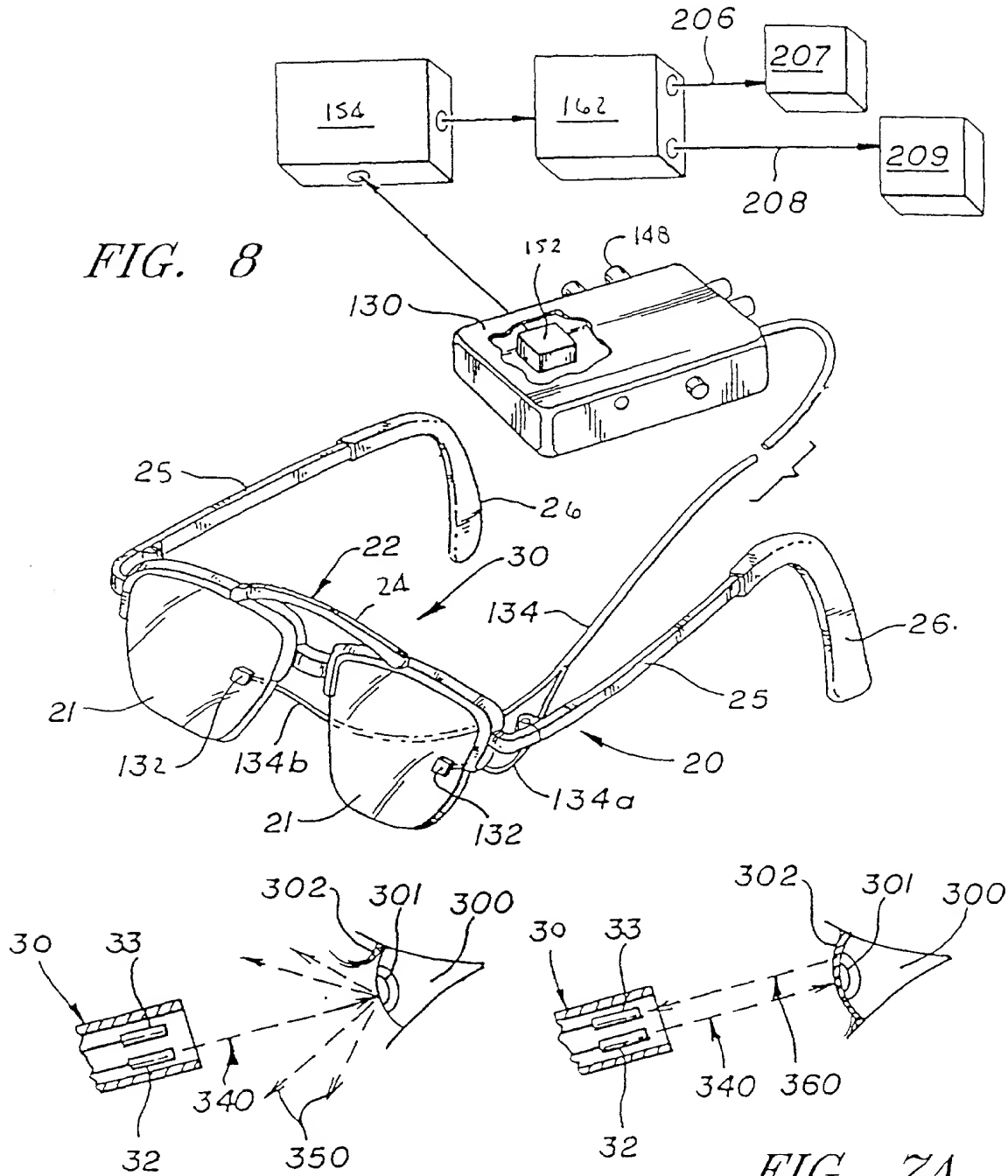


FIG. 6A

FIG. 7A

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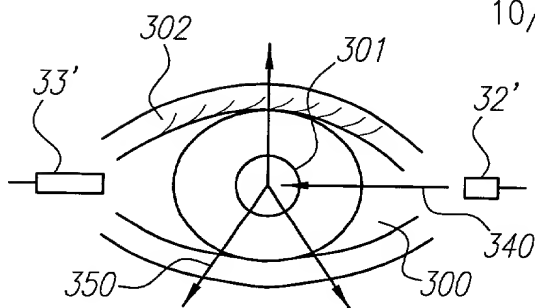


FIG. 6B

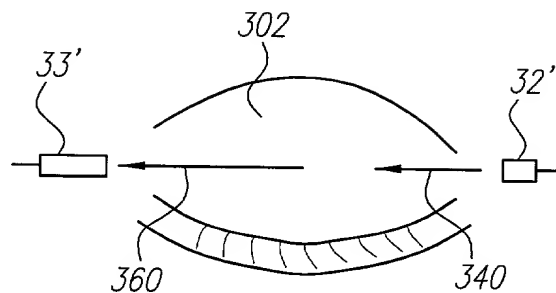


FIG. 7B

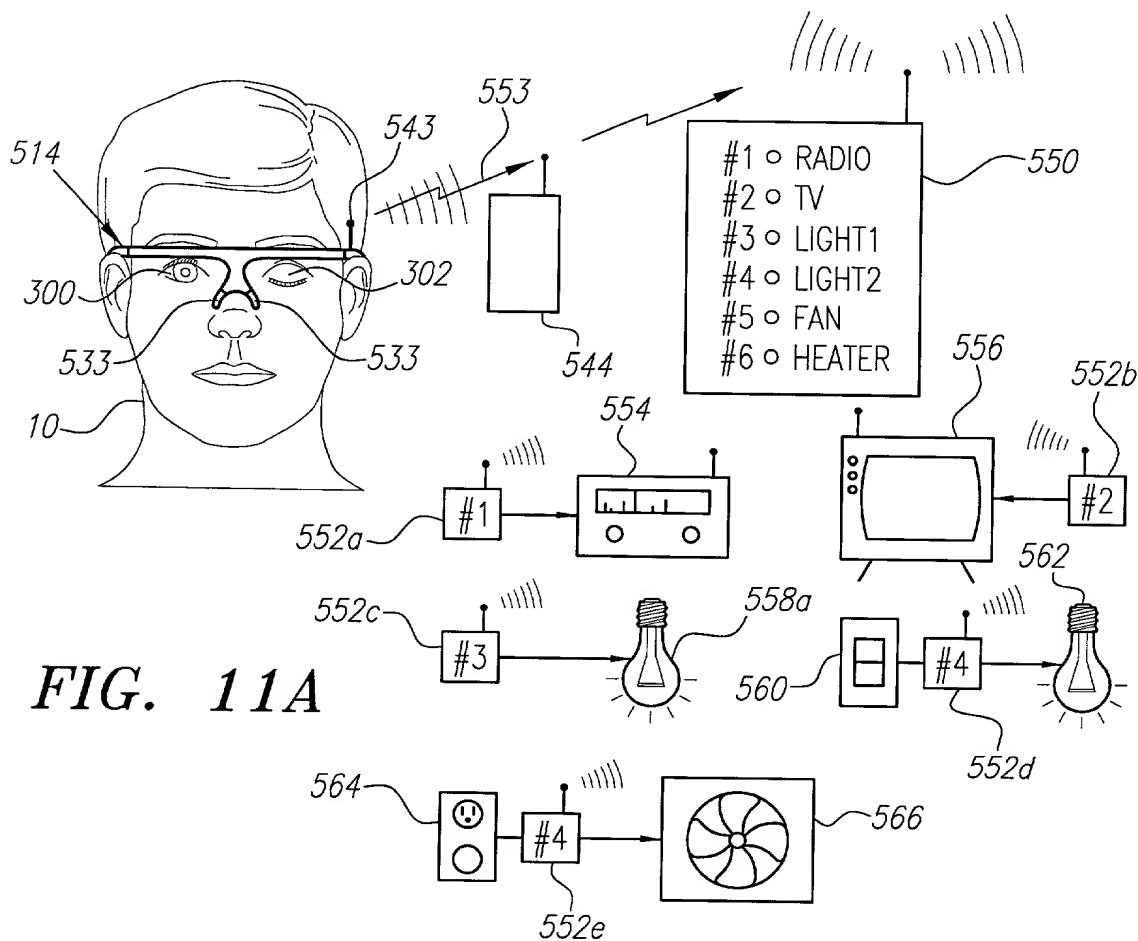


FIG. 11A

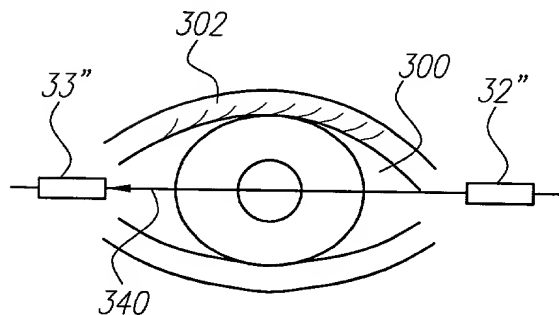


FIG. 6C

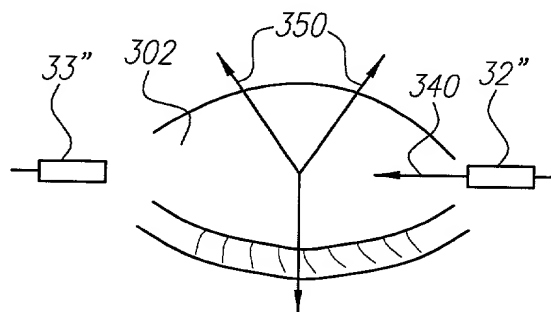


FIG. 7C

FIG. 11A

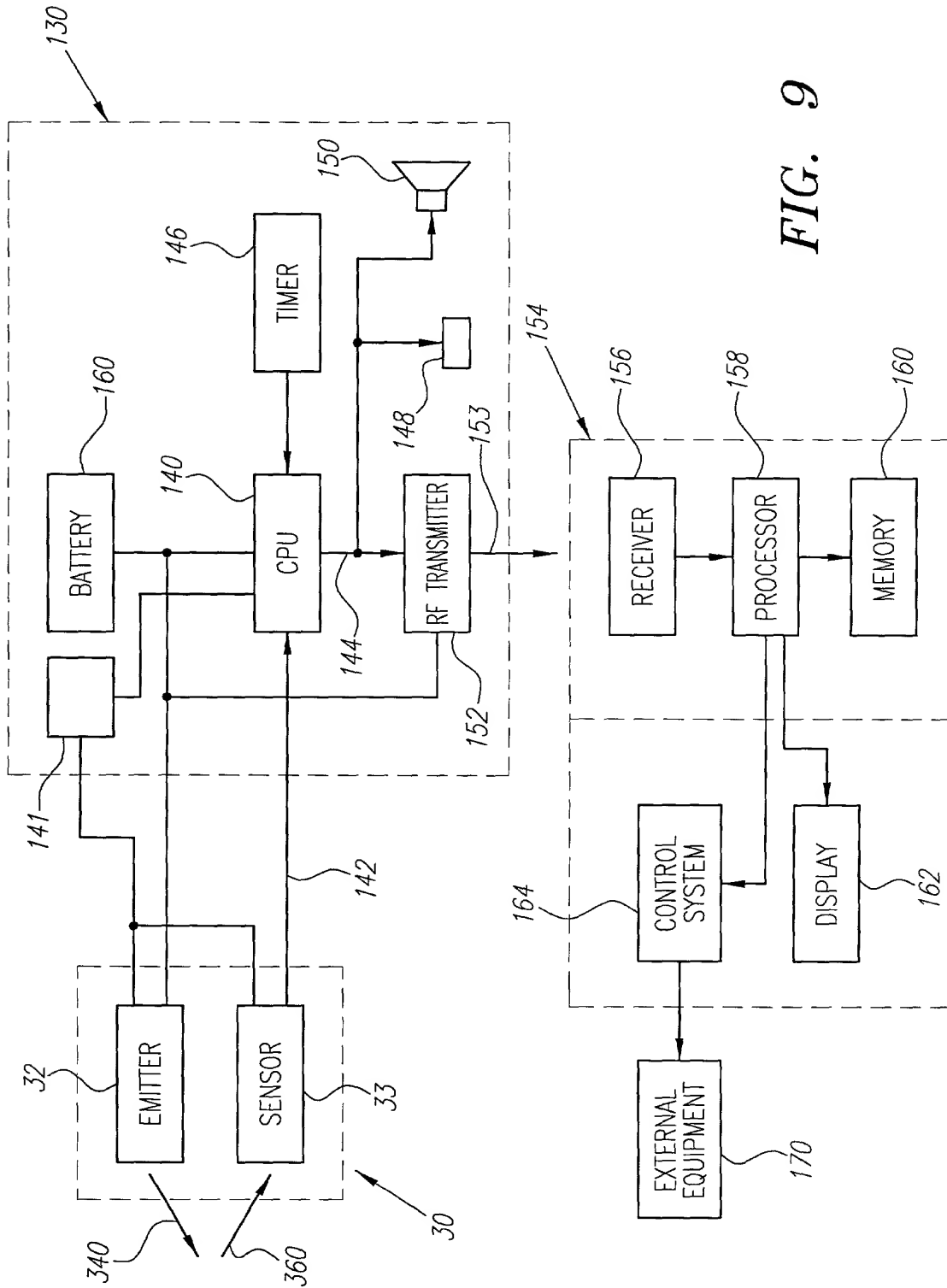


FIG. 9

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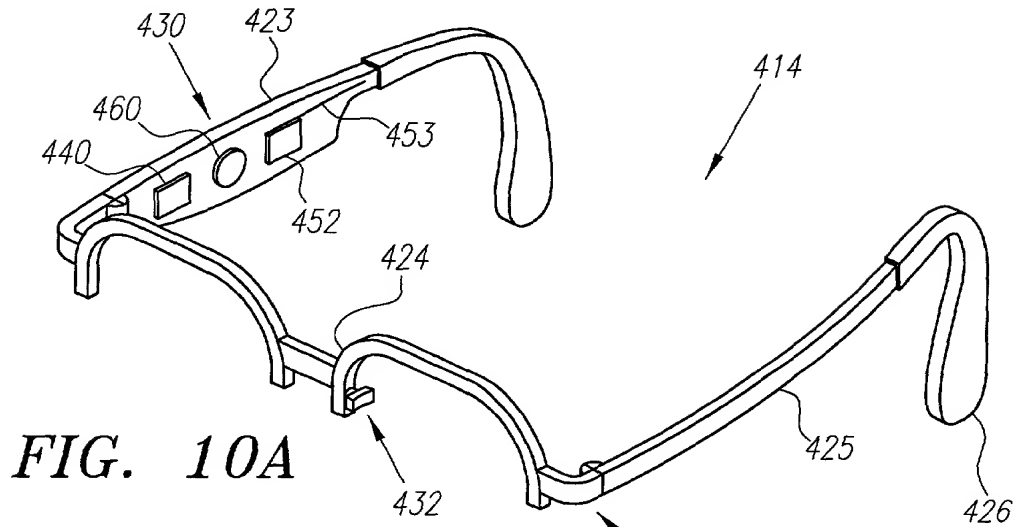


FIG. 10A

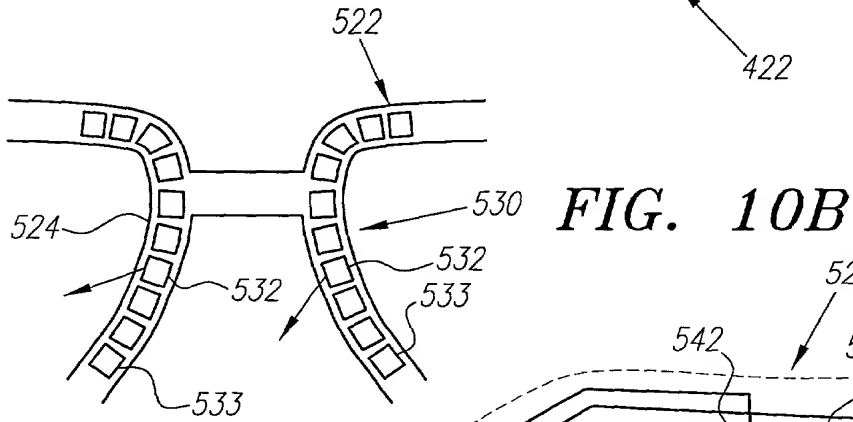


FIG. 10B

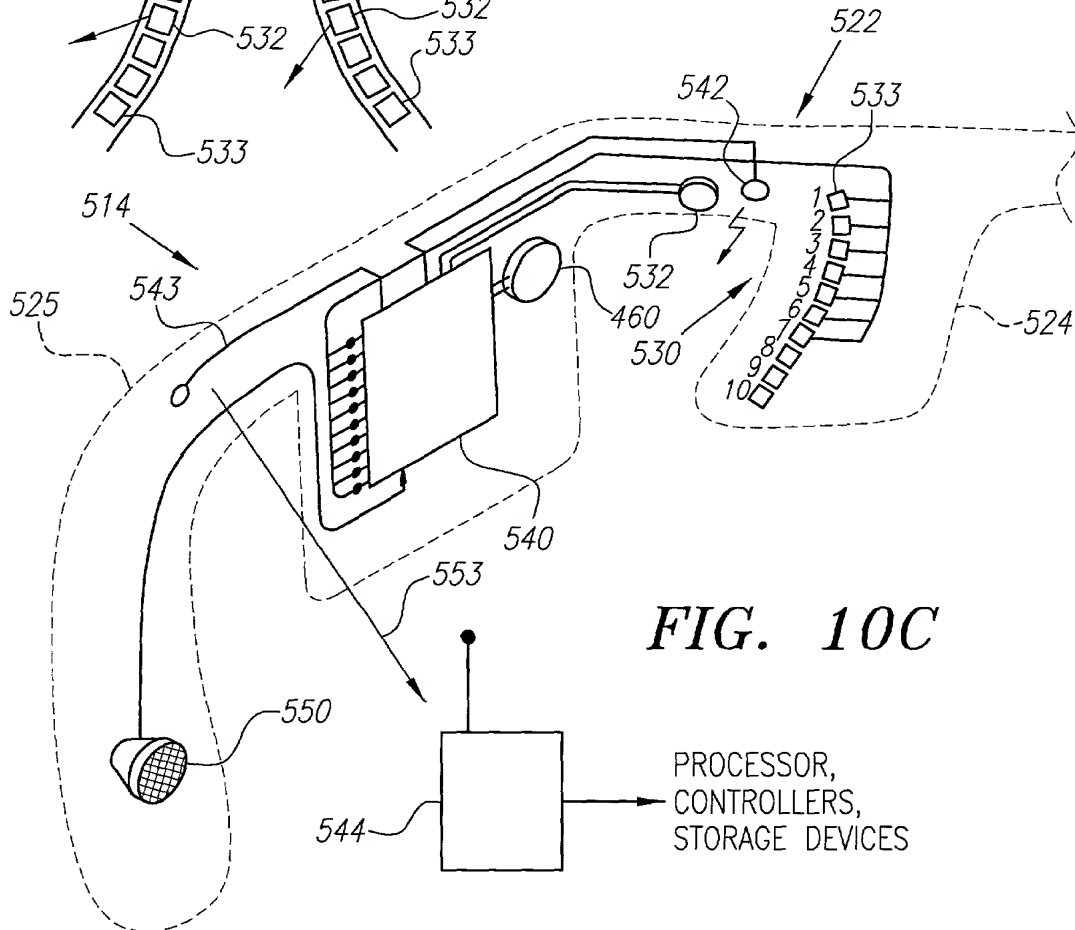
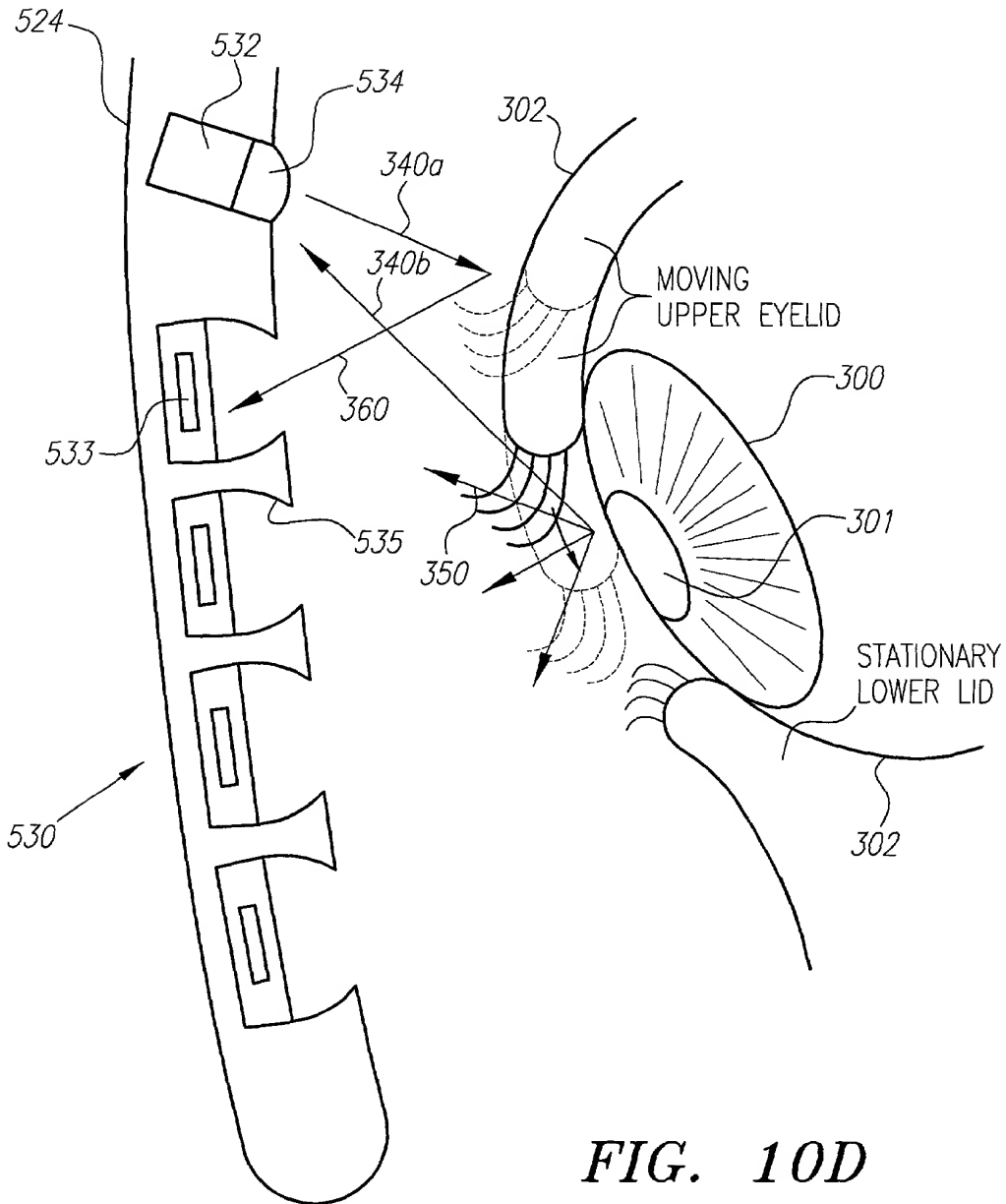


FIG. 10C

PROCESSOR,
CONTROLLERS,
STORAGE DEVICES

FIG. 10A



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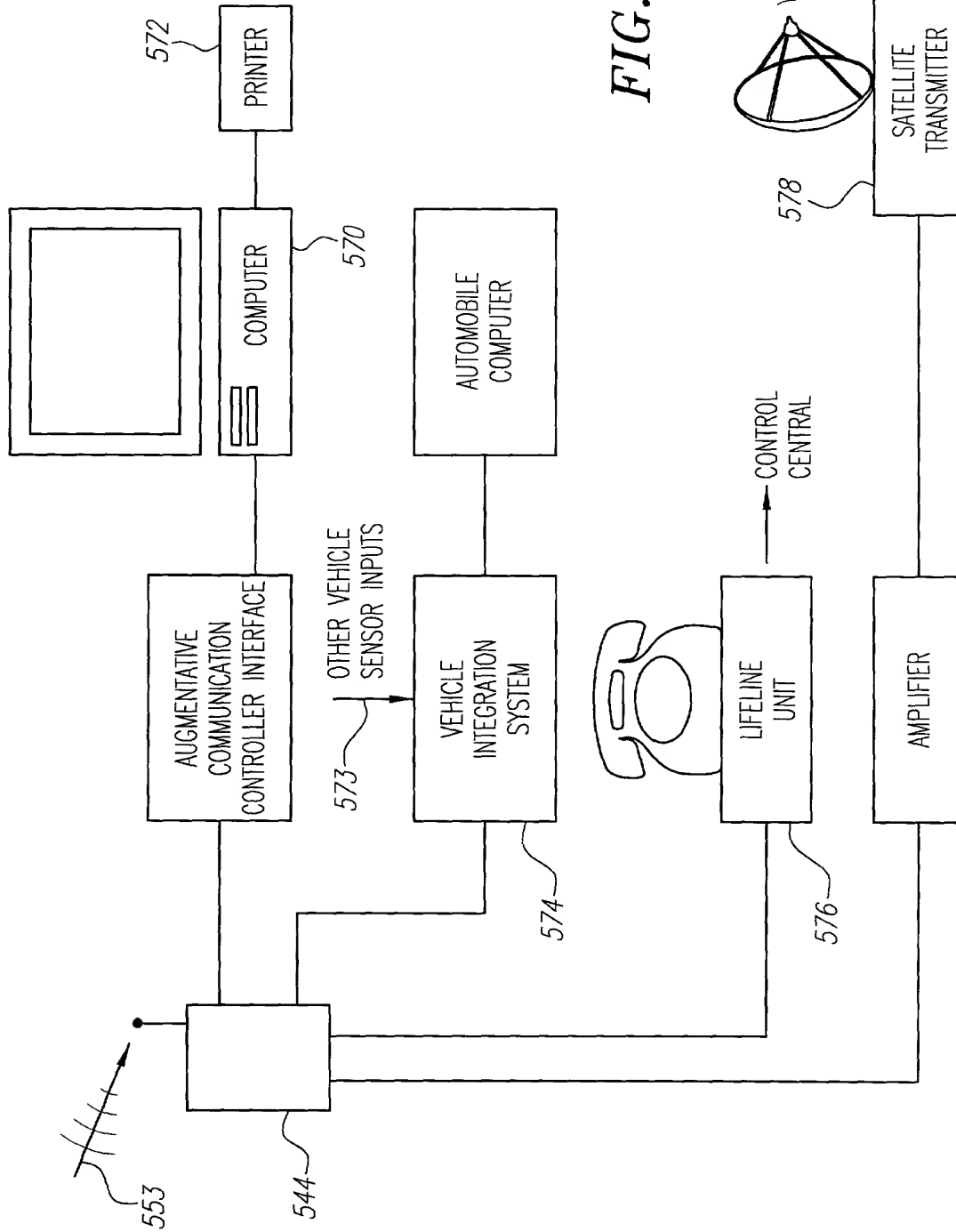


FIG. 11B

PERCLOS PERCENT % OF EYE LID CLOSURE

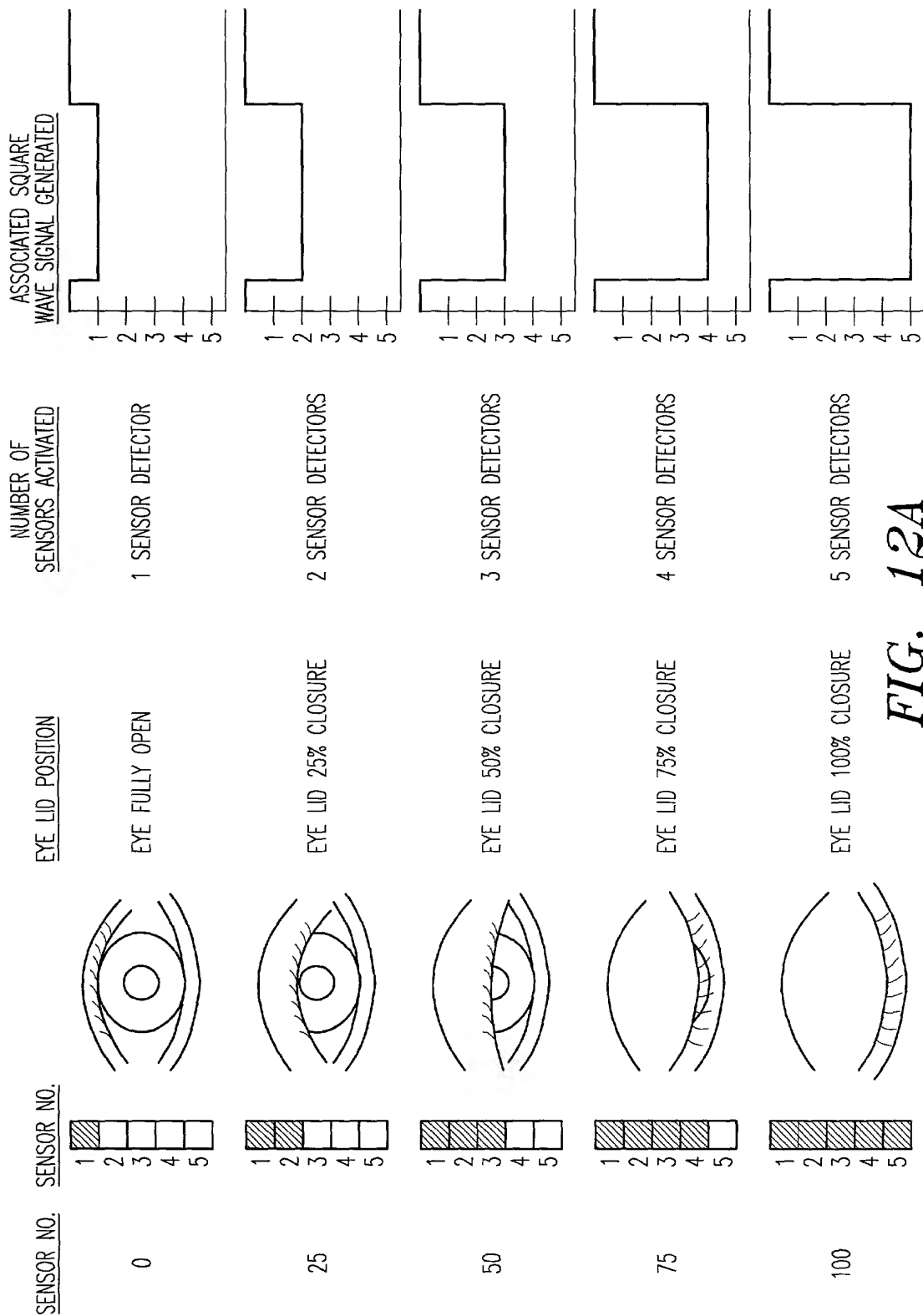
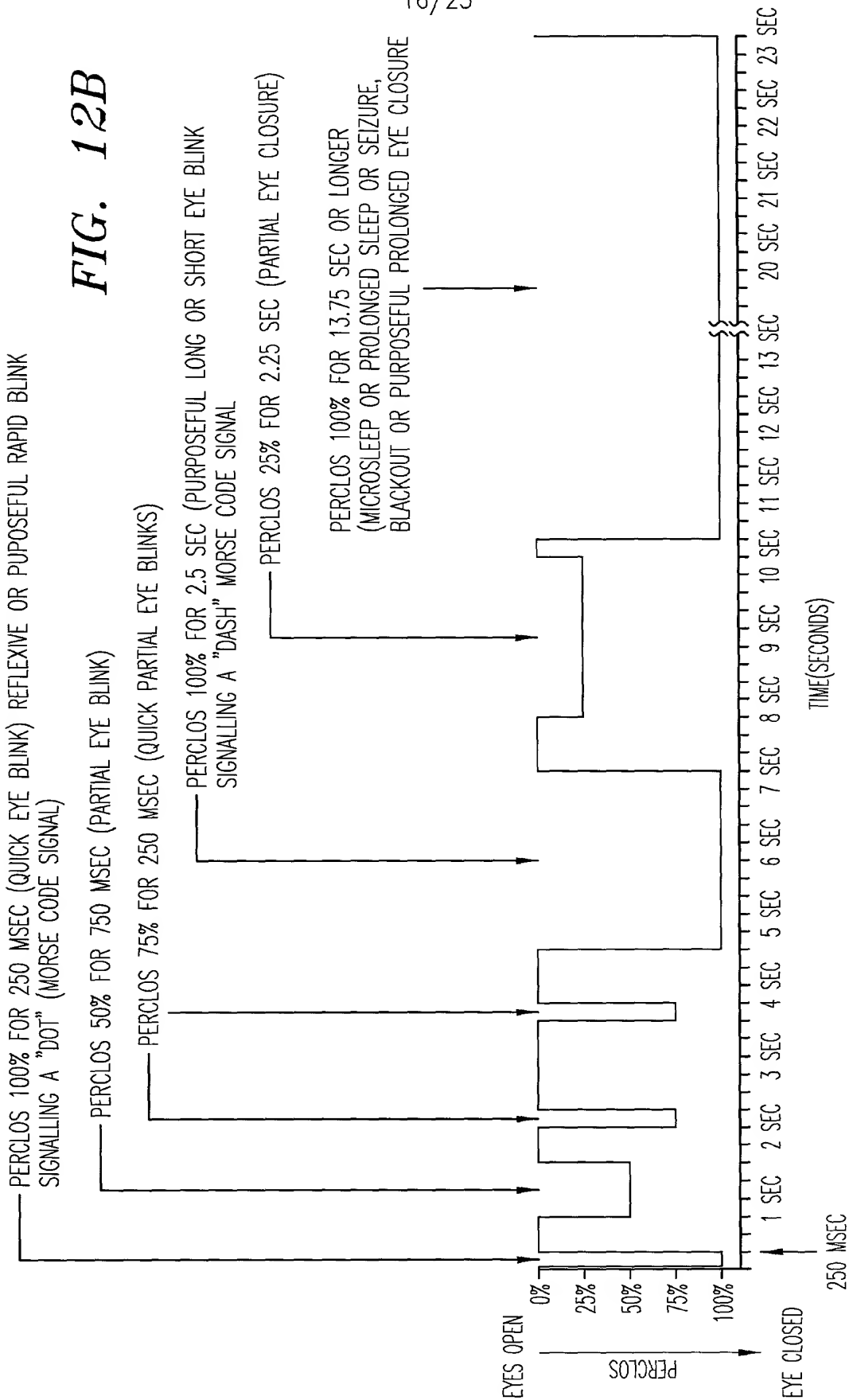


FIG. 12A

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FIG. 12B



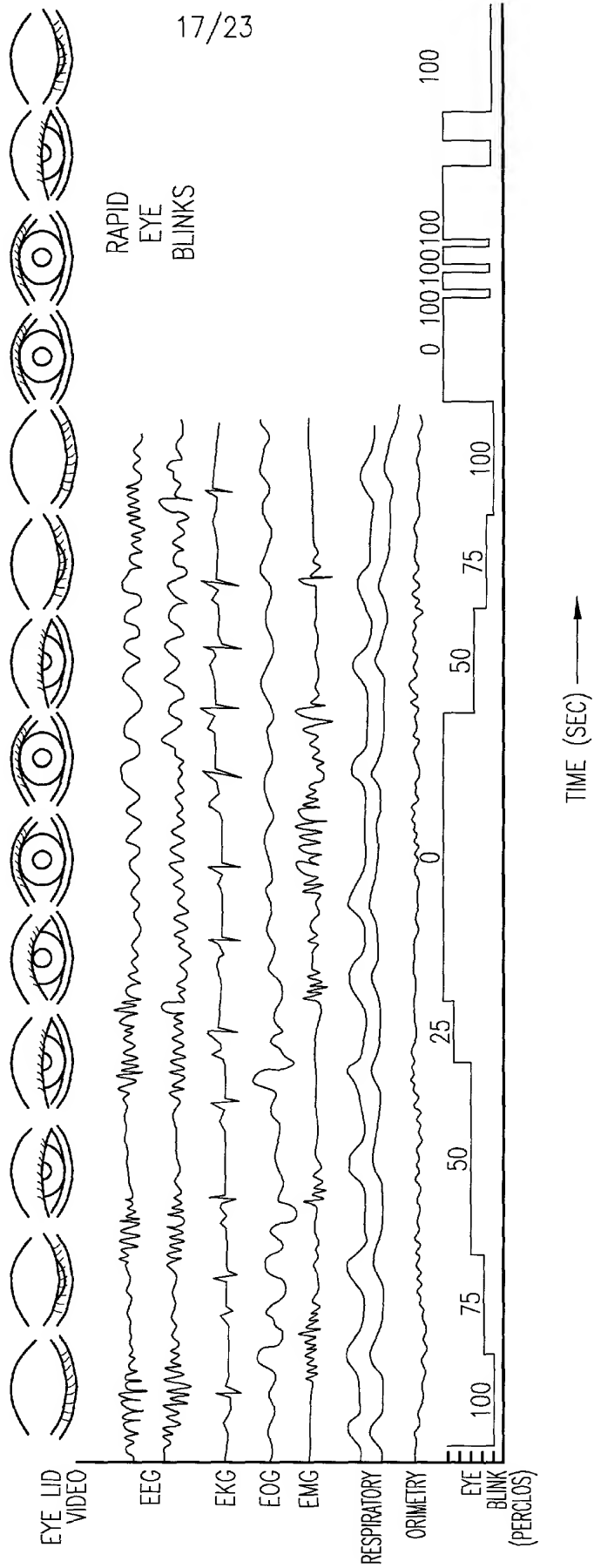


FIG. 12C

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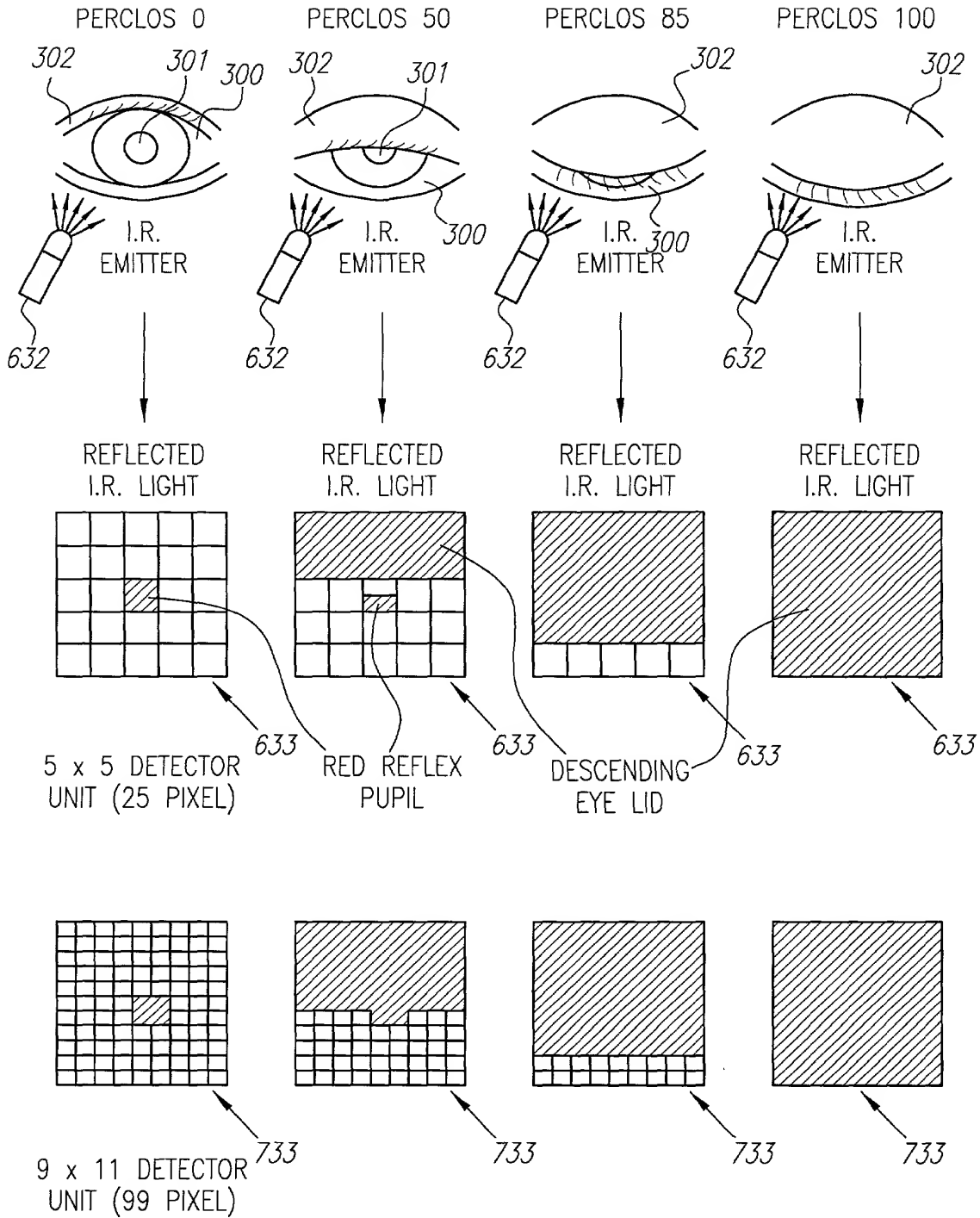


FIG. 12DI

FIG. 12DII

FIG. 12DIII

FIG. 12DIV

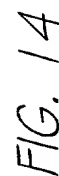
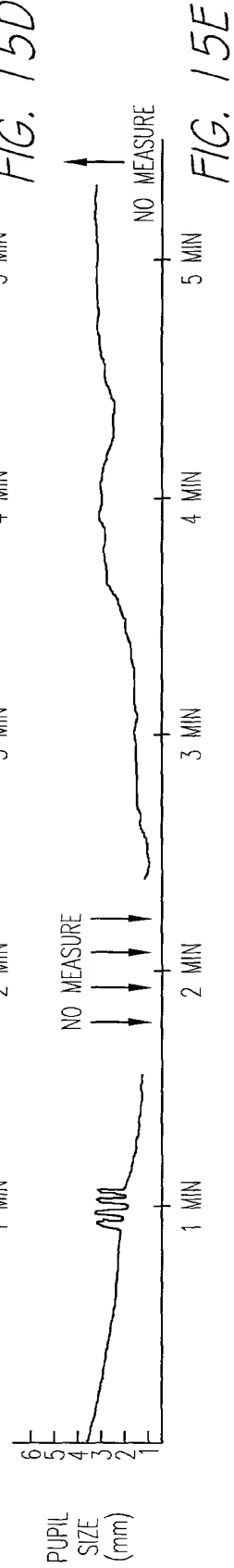
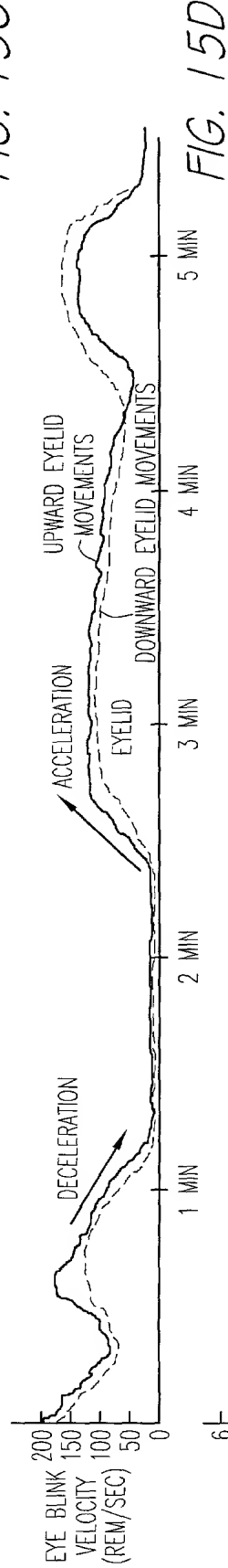
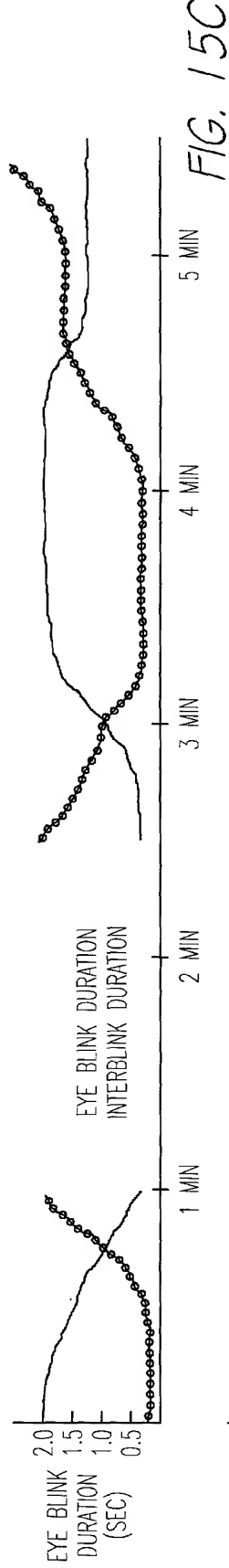
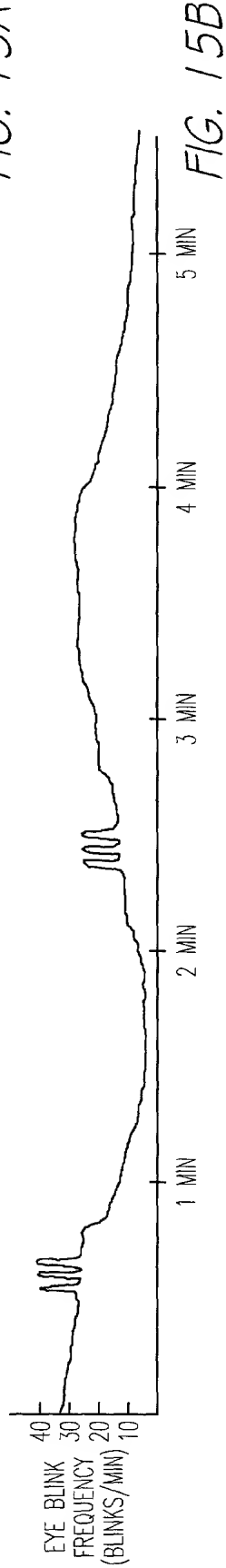
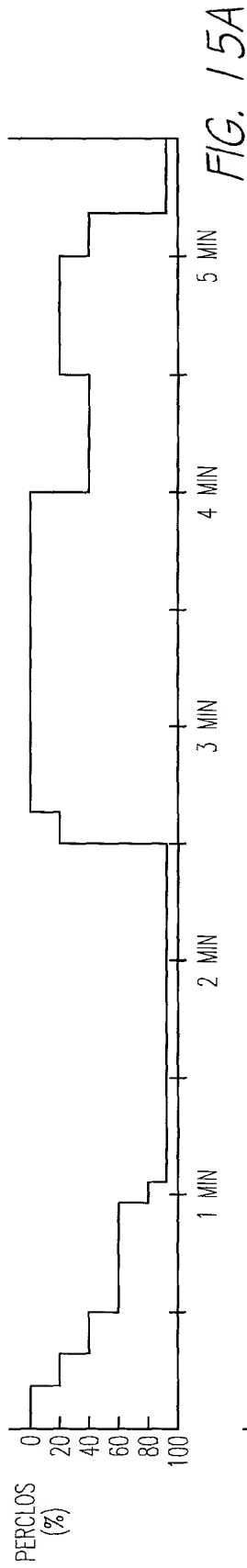


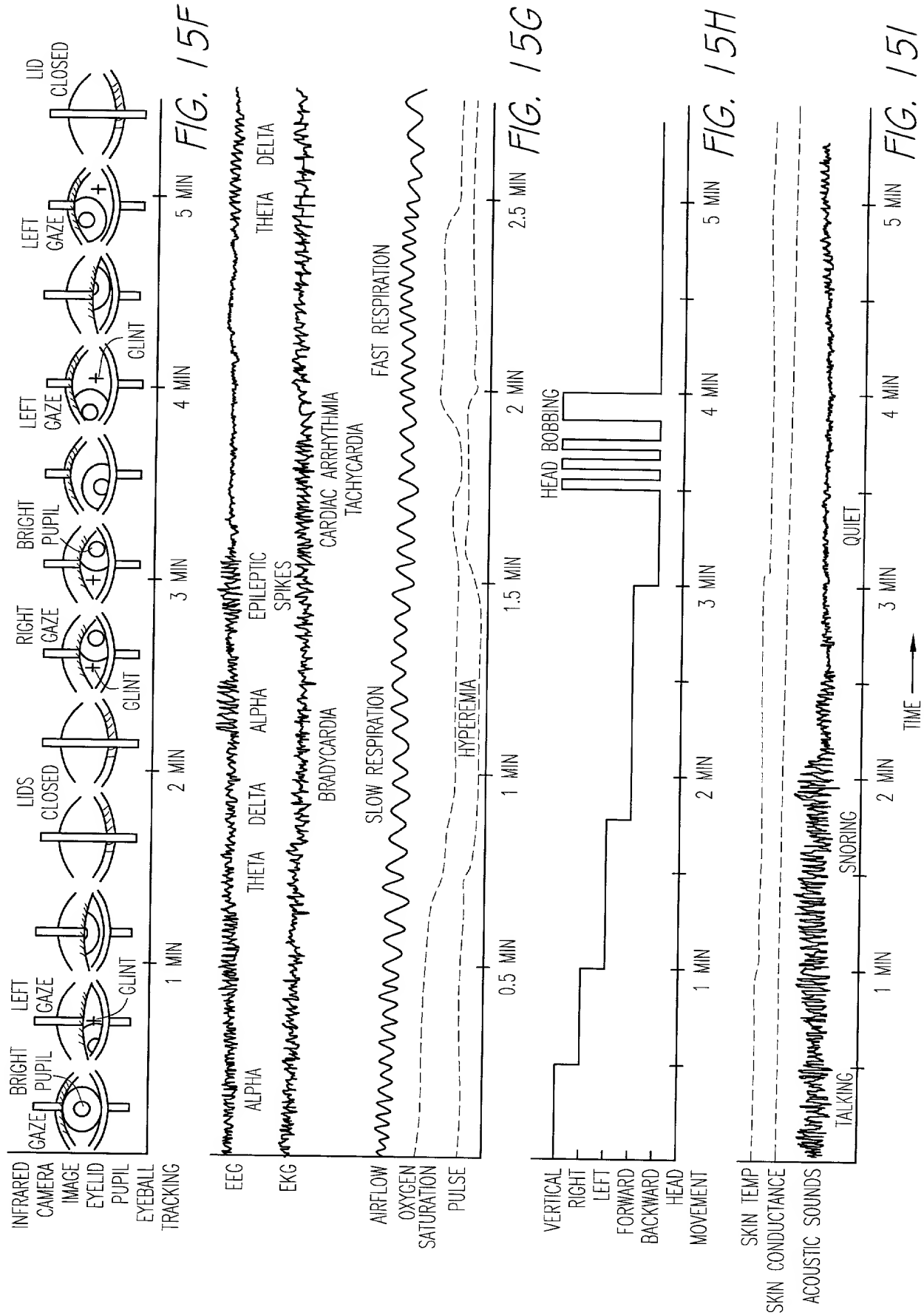
FIG. 13

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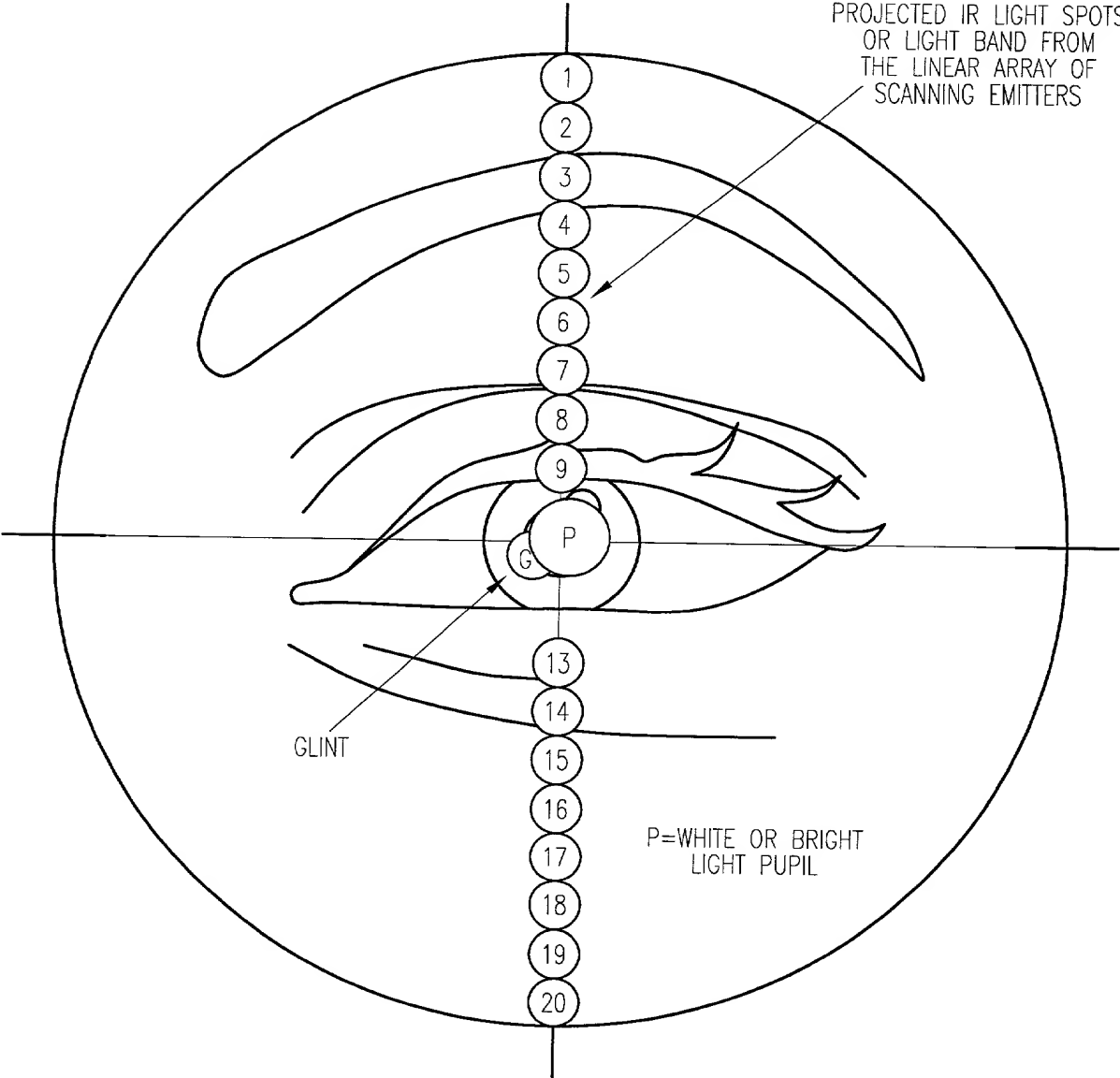


FIG. 16

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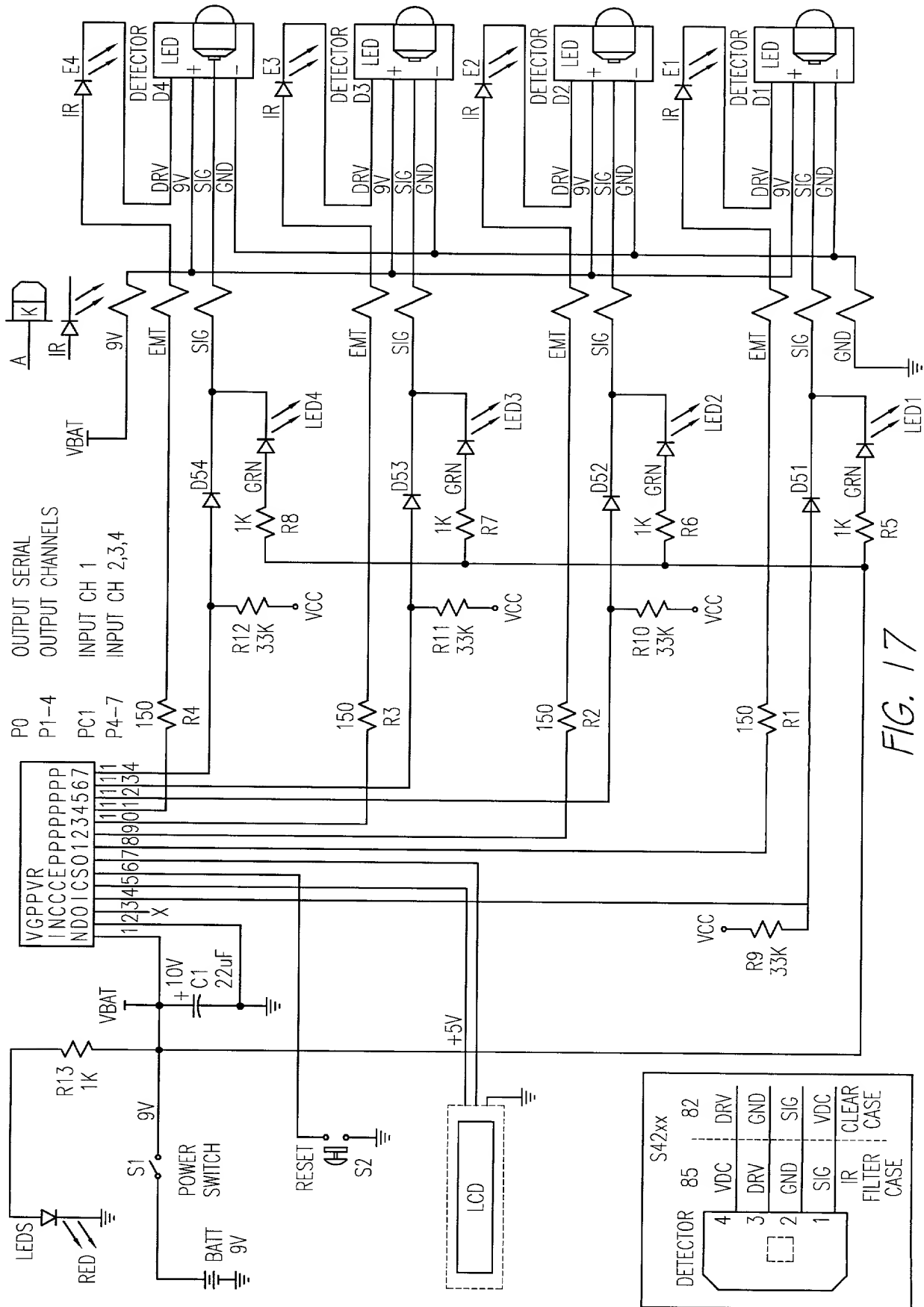


FIG. 17